

APPARATUS AND METHOD FOR LESSENING THE ACCUMULATION
OF HIGH BOILING FRACTION FROM FUEL IN INTAKE VALVES OF
COMBUSTION ENGINES

ABSTRACT OF THE DISCLOSURE

[001] An intake valve for a combustion engine having an oil reservoir and adapted for combusting fuel is disclosed. The intake valve includes a valve stem and a valve guide arranged proximate the valve stem. The valve guide and valve stem define a first clearance dimension and a second clearance dimension between an inner surface of the valve guide and an outer surface of the valve stem, wherein the second clearance dimension is greater than the first clearance dimension. The second clearance dimension is sized to accept a volume of oil quantified to dissolve high boiling fraction from the fuel to lessen the accumulation of high boiling fraction between the valve stem and the valve guide.